

AMENDMENTS TO THE CLAIMS

1. (Currently amended) A tree stump grinding tooth adapted for use in a tree stump grinding wheel having a rotor, the tooth comprising:
 - a main body comprising two substantially planar surfaces disposed so as to face in generally opposite directions;
 - at least one cutting face connected to and extending away from the main body;
 - wherein the cutting face includes at least two cutting tips which are oriented generally perpendicular to each other such that ~~they~~ the cutting tips cut in orthogonal directions simultaneously when said tooth is rotated about an axis spaced from said tooth.
2. (Previously presented) A tooth according to claim 1, wherein the main body comprises a back face comprising a channel therein.
3. (Previously presented) A tooth according to claim 1, wherein said main body further comprises an alignment through hole.
4. (Currently amended) A tree stump grinding unit adapted for use with a tree stump grinding machine, the unit comprising:
 - a rotor having a rim around which a plurality of slots are provided;
 - a plurality of teeth, each tooth disposed partially in a corresponding slot in said rotor and comprising:
 - a main body comprising two substantially planar surfaces disposed so as to face in generally opposite directions;
 - at least one cutting face connected to and extending away from the main body;

wherein a force applied to the tooth in the plane of the rotor is transferred from the tooth to the rotor via one of the planar surfaces; and

wherein the cutting face includes at least two cutting tips which are perpendicular to each other; and
fixing means for retaining each tooth in a corresponding slot in the rotor.

5. (Currently amended) A grinding unit according to claim 4, wherein a ~~the~~ radius of the rotor varies around ~~the~~ a circumference thereof.

6. (Currently amended) A tree stump grinding unit adapted for use with a tree stump grinding machine, the unit comprising:

a polygonal rotor having a rim around which a plurality of slots are provided; said slots extending generally radially inward relative to a rotational center of said rotor;

a plurality of teeth, each tooth comprising:

a main body ~~including a slot~~ comprising two substantially planar surfaces engaged with a respective slot in the rotor,

at least one cutting face connected to and extending away from the main body;

wherein a force applied to the tooth in the plane of the rotor is transferred from the tooth to the rotor via one of the planar surfaces, with the force transfer oriented generally normal to that planar surface; and

wherein the cutting face includes at least two tips which are perpendicular to each other; and
fixing means for retaining each tooth in a corresponding slot in the rotor.

7. (Original) A grinding unit according to claim 6, wherein the polygon shape is irregular.

8. (Previously presented) A grinding unit according to claim 6, wherein the rotor has an even number of sides.
9. (Previously presented) A grinding unit according to claim 6, wherein each slot is provided at a corner of the polygon.
10. (Original) A grinding unit according to claim 8, wherein the slots are arranged in diametrically opposed pairs.
11. (Original) A grinding unit according to claim 10, wherein the slots in an opposing pair of slots are the same distance from the axis.
12. (Previously presented) A grinding unit according to claim 8, wherein the number of slots is 4, 6, 8, 10 or 12.
13. (Previously presented) A grinding unit according to any one of claims 4 to 12, wherein at least one slot is angled towards the axis of rotation of the rotor.
14. (Original) A grinding unit according to any one of claims 4 to 12, wherein at least one slot is angled away from the axis of rotation of the rotor.
15. (Previously presented) A grinding unit according to claim 12, wherein the slots are arranged in two diametrically opposed series, each successive slot in each series having an increased distance from the axis in the direction in which the rotor rotates, in use.

16. (Previously presented) A grinding unit according to claim 4, wherein the rotor further comprises a plurality of through holes corresponding in number with the number of slots in the rotor, and each tooth further comprises a corresponding through hole in alignment with a respective through hole in the rotor when the tooth is located in the respective slot on the rotor, and wherein the fixing means is a nut and bolt, the bolt passing through the aligned through holes in the rotor and the respective tooth.

17. (Previously presented) The tooth of claim 1 wherein said main body further comprises a slot disposed distally from said cutting face.

18. (Previously presented) The tooth of claim 1 wherein said substantially planar surfaces are disposed generally parallel to said cutting face.

19. (New) The tooth of claim 1 wherein said cutting face is disposed generally parallel to at least one of said substantially planar surfaces.